

PROCEDURE COMMENTS

Please place any helpful information pertaining to this procedure below:

Rev.	Originator / Typist	Date	Comments
			THIS PROCEDURE HAS NOT BEEN ITS/TRS COMMITMENT REVIEWED. DO NOT MAKE A HIDDEN TEST COPY FOR THE ORIGINATOR.
13	Lee Eitel	10/13/98	Minor changes
13	Lee Eitel	11/23/98	Incorporate ORC Comments and make changes per RFR 19176A
14	Lee Eitel	9/24/99	Changes due to SOS 99-0783

DO NOT RETURN THIS PRINTED PAGE TO ORIGINATOR

CALLAWAY PLANT
ADMINISTRATIVE PROCEDURE
APA-ZZ-00742
CONTROL OF IGNITION SOURCES

RESPONSIBLE DEPARTMENT ENGINEERING

PROCEDURE OWNER LEE EITEL

WRITTEN BY LEE EITEL

PREPARED BY LEE EITEL

APPROVED BY _____

DATE ISSUED _____

This procedure contains the following:

Pages	<u>1</u>	through	<u>16</u>
Attachments	<u>1</u>	through	<u>2</u>
Tables	_____	through	_____
Figures	_____	through	_____
Appendices	_____	through	_____
Checkoff Lists	_____	through	_____

This procedure has _____ checkoff list(s) maintained in the mainframe

Conversion of commitments to TRS reference/hidden text completed by Revision

ITS Commitments _____ Non-T/S Commitments _____

DEFICIENCY LIST

Section	Deficiency Description	Constraints

TABLE OF CONTENTS

<u>Section</u>	<u>Page Number</u>
1 PURPOSE AND SCOPE	1
2 DEFINITIONS	2
3 RESPONSIBILITIES	3
4 INSTRUCTIONS	6
4.1 INITIATING HOT WORK	6
4.2 FIRE SUPPRESSION SYSTEM REVIEW	7
4.3 PHYSICAL INSPECTION OF WORK AREA	8
4.4 CONDITIONS WHEN HOT WORK IS NOT PERMITTED	11
4.5 DOCUMENTING THE PHYSICAL INSPECTION	11
4.6 AUTHORIZING HOT WORK	12
4.7 PROVIDING FOR HOT WORK FIRE WATCHES	12
4.8 CONDUCTING HOT WORK	13
4.9 EXTENDING HOT WORK	13
4.10 CLOSING OUT HOT WORK	14
5 LEAK TESTING (COMN 550)	14
6 SMOKING	14
7 QUALIFICATIONS FOR HOT WORK FIRE WATCHES (COMN 549)	15
8 RECORDS	15
9 REFERENCES	16

Attachment 1 - Hot Work Permit Exempt Areas 2 Pages

Attachment 2 - Hot Work Permit 2 Pages

CONTROL OF IGNITION SOURCES

1 PURPOSE AND SCOPE

1.1 PURPOSE

Establishes administrative controls to protect plant equipment and structures from fire damage resulting from work involving ignition sources, such as welding, cutting, grinding, or open flame work; to prohibit the use of open flame or combustion smoke for leak testing; and to prohibit smoking and other ignition sources in designated areas. (COMN 598, 597, 567)

NOTE:

For work evolutions which create significant dust or fumes, special consideration should be given to the rooms listed on the permit or section 4.2. Although this procedure only applies to hot work, this note serves as a reminder to prevent inadvertent actuation of the suppression systems.

1.2 SCOPE

This procedure pertains to AmerenUE controlled areas and buildings on the Callaway Plant site. It does not apply to non-Power Block buildings under construction which have not been released to AmerenUE. However, it is recommended the precautions provided for hot work in this procedure be observed in these buildings while construction is in progress.

2 DEFINITIONS

- 2.1 Appreciable Combustibles - Significant quantity of combustibles, which if ignited and no action is taken to extinguish them, will not self- extinguish (burn out), will propagate (spread to other materials through continuity of combustibles), and will result in damage to permanent plant equipment.
- 2.2 Combustible Material - Any material, which in the form and under the conditions used, could ignite and burn (ie. ordinary wood).
- 2.3 Combustion Generated Smoke - Smoke produced from a burning object.
- 2.4 Hot Work - Any activity that generates a significant quantity of heat and/or showers of sparks or slag. This includes activities such as:
- a) welding
 - b) cutting
 - c) grinding
 - d) brazing
 - e) open flame soldering
 - f) other open flame work
- 2.4.1 The following work is not considered Hot Work:
- a) working with a blow dryer type heat gun
 - b) wire brushing by hand
 - c) wire brushing with a power tool
 - d) soldering with a soldering gun
- 2.5 Hot Work Fire Watch - A person who has received Hot Work Fire Watch Training and has been assigned to a specific area and/or activity with the responsibility to
(COMN 549)
- a) ensure the area is fire safe
 - b) watch for conditions that might cause a fire
 - c) immediately take appropriate action if a fire is discovered.

- 2.6 Hot Work Permit Exempt Area - An area designated in Attachment 1, Hot Work Permit Exempt Areas. These areas are constructed of noncombustible or fire-resistive materials, essentially free of combustible and flammable contents, and suitably segregated from adjacent areas.
- 2.7 FPIP – Fire Protection Impairment Permit. These permits are issued for Fire Protection Equipment which is impaired and defines compensating measures required. FPIP's are implemented according to **APA-ZZ-00701**.

3 RESPONSIBILITIES

3.1 RESPONSIBLE DEPARTMENT HEADS

Responsible department heads should ensure work activities performed under their direction that include hot work are performed in accordance with the requirements of this procedure and Hot Work Permits (Attachment 2) are issued, as required, for these work activities.

3.2 CONTROL ROOM

When notified of hot work, the STA/Control Room is responsible for ensuring halon systems and Pre-action sprinkler systems are disabled when required to prevent inadvertent actuation.

3.2.1 In all other cases the STA/Control Room verifies the fire protection systems in the affected area are operable.

3.2.2 The STA/Control Room **MUST** take appropriate measures if notified of special circumstances by the Responsible Supervisor.

3.2.3 If the Control Room feels circumstances are dangerous or can affect nuclear safety or personnel safety, the Control Room can stop the hot work activities.

3.3 RESPONSIBLE SUPERVISOR

3.3.1 The responsible supervisor is the management individual who is responsible for the work activity. For contracted work he may be the contractor or one of his foremen or supervisors.

- 3.3.1.1 The responsible supervisor SHALL ensure that the following requirements of this procedure are implemented: (**COMN 515**)
 - 3.3.1.1.1 Ensuring inspection of the work area and confirming appropriate precautions have been taken to prevent a fire.
 - 3.3.1.1.2 Ensuring only approved apparatus are used.
 - 3.3.1.1.3 Ensuring workers are suitably trained in the safe operation of their equipment and in emergency procedures in the event of a fire.
 - 3.3.1.1.4 Ensuring contractors, who perform hot work, have suitably trained personnel and have an awareness of hazardous conditions and of the risks involved.
 - 3.3.1.1.5 Obtaining authorization to perform hot work from the STA/Control Room if required because of an FPIP.
 - 3.3.1.1.6 Ensuring hot work is not performed in the vicinity of plant operations which could expose combustibles to ignition.
 - 3.3.1.1.7 Notifying the Control Room if large quantities of readily ignitable combustibles cannot be removed from the hot work area.
 - 3.3.1.1.8 Ensuring fire protection and extinguishing equipment are properly located at the work site.
 - 3.3.1.1.9 Ensuring the worker, who may generate the ignition source, obtains his approval that conditions are safe before going ahead.
 - 3.3.1.1.10 Ensuring Hot Work Fire Watches are posted in the work area as required for the duration of the hot work and for 30 minutes following completion/interruption of the work.
- 3.3.2 The Responsible Supervisor MUST implement the following:
 - 3.3.2.1 Ensure completion of the Hot Work Permit, CA #221.
 - 3.3.2.2 Ensuring the STA/Control Room is notified prior to the initiation of hot work activities and immediately following the conclusion of such activities, if necessary because of an FPIP or other reasons

3.4 FIRE MARSHAL

The Fire Marshall is responsible for the following:

- 3.4.1 Providing a Hot Work Fire Watch Training Program for the qualification of Hot Work Fire Watch personnel.
- 3.4.2 Reviewing and approving Vendor/Contractor supplied Hot Work Fire Watch Training Programs.
- 3.5 MAINTENANCE
- 3.5.1 Maintenance Planners MUST include a Hot Work Permit (HWP) with their work package whenever a work activity includes performance of hot work.
- 3.5.2 Maintenance Planners MUST include a Fire Protection Impairment Permit (FPIP) with the package when a fire protection system must be disabled to perform the hot work. This will be done when hot work is performed in areas protected by halon or pre-action sprinkler systems as listed in steps 4.2.1 and 4.2.2.
- 3.5.3 FPIPs are completed in accordance with **APA-ZZ-00701**, Control of Fire Protection Impairments.
- 3.6 DESIGN ENGINEERING
- 3.6.1 Design Engineering MUST include a Hot Work Permit (HWP) with their work package whenever a work activity includes the performance of hot work.
- 3.6.2 Design Engineering MUST include a Fire Protection Impairment Permit (FPIP) with the work package when a fire protection system must be disabled to perform the hot work.
- 3.6.2.1 This will be done when hot work is performed in areas protected by halon or pre-action sprinkler systems as listed in steps 4.2.1 and 4.2.2.
- 3.7 PLANT PERSONNEL
- 3.7.1 Plant personnel MUST notify the Control Room immediately if they observe any situation or activity for which a required Hot Work Fire Watch is not in place.
- 3.7.2 Plant personnel who are performing the hot work are responsible for the following:
 - 3.7.2.1 Handling equipment safely and in a manner which does not endanger lives and property.

- 3.7.2.2 Obtaining approval of the Responsible Supervisor before starting to perform hot work.
- 3.7.2.3 Performing hot work only when conditions are safe.
- 3.7.2.4 Performing hot work only so long as conditions are unchanged from those under which approval was granted.

3.8 SCHEDULING

- 3.8.1 Ensuring hot work is scheduled such that plant operations which might expose combustibles to ignition are not started.

4 INSTRUCTIONS

4.1 INITIATING HOT WORK

- 4.1.1 Hot work should preferably be performed in a Hot Work Permit Exempt Area designated in Attachment 1.
 - 4.1.1.1 If hot work is performed in a Hot Work Permit Exempt Area, then a Hot Work Permit is not required. However, the individual performing hot work is responsible to ensure hot work is only performed when conditions are safe.
 - 4.1.1.2 If hot work cannot be done in a Hot Work Permit Exempt Area, then a Hot Work Permit SHALL be required. **(COMN 515)**
- 4.1.2 When a hot work activity is identified by the Planner or Construction Supervisor to be performed on the Callaway Plant site within AmerenUE controlled areas and buildings, but outside a Hot Work Permit Exempt Area, then the Planner or Construction Supervisor MUST place a Hot Work Permit, Attachment 2, in the work package (If required, an FPIP MUST also be included).
- 4.1.3 A separate Hot Work Permit should be placed in the work package for each job.
 - 4.1.3.1 When several hot work jobs are to be performed simultaneously in a plant area where such permits are required, a separate permit should be issued for each job.

- 4.1.3.2 A separate Hot Work Permit SHALL be completed for each room/area or fire zone in which the hot work will be performed. (COMN 515)
- 4.1.4 Before hot work which requires a Hot Work Permit is initiated, the Responsible Supervisor/Designee MUST fill out the Hot Work Permit indicating the Work Authorizing Document Number, the location of the hot work, and the type of work to be done.
- 4.2 FIRE SUPPRESSION SYSTEM REVIEW
- 4.2.1 The Responsible Supervisor/Designee, MUST determine if hot work or work which will cause excessive dust or fumes is to be performed in any of the following areas protected by a halon suppression system:
- a) AUXILIARY BLDG.
 - North or South Electrical Penetration Rooms (1409 or 1410)
 - Load Center and MG Sets Room (1403)
 - b) CONTROL BLDG.
 - ESF Switchgear Rooms 1 and 2 (3301 or 3302)
 - Control Room Cable Trench and Chase
 - c) SERVICE BLDG.
 - Service Bldg. IBM Computer Room
 - Service Bldg. Telephone or Microwave Rooms
 - d) TRAINING CENTER
 - Training Center Computer Room
 - Training Center Simulator Room
 - e) STORES 1
 - Stores #1 Radiograph Storage Vault
- 4.2.1.1 If the work area is halon protected then the responsible supervisor/designee notifies the Control Room they are ready to perform work in a halon protected area which could potentially activate the halon system and the Control Room should verify the halon system is disabled.

- 4.2.1.1.1 These systems are listed on the back of the Hot Work Permit. (During the planning stages the planner should create a Fire Protection Impairment Permit (FPIP) to disable the halon system for the area in accordance with **APA-ZZ-00701**, Control of Fire Protection Impairments.)
- 4.2.2 The Responsible Supervisor/Designee **MUST** determine if the hot work or work which will cause excessive dust or fumes is to be performed in any of the following areas protected by a pre-action sprinkler system activated by smoke detectors:
- a) CONTROL BLDG.
 - Upper or Lower Cable Spreading Rooms (3501 or 3801)
 - b) AUXILIARY BLDG.
 - 1974' El. Corridors (1101, 1102, 1122, or 1130)
 - 2000' El. Corridors (1301, 1312, 1314, 1315, 1316, 1317, 1320, or 1321)
 - 2026' El. Corridors (1402, 1406 or 1408)
 - c) COMMUNICATIONS CORRIDOR
 - BOP Computer Room (3613)
- 4.2.2.1 If the work area is protected by a pre-action sprinkler system activated by smoke detectors, then the responsible supervisor/designee notifies the STA/Control Room they are ready to perform work in an area protected by pre-action sprinkler system and the Control Room may consider disabling the pre-action sprinkler system.
- 4.2.2.1.1 These systems are listed on the back of the Hot Work Permit. (During the planning stages the planner should create a Fire Protection Impairment Permit (FPIP) to disable the pre-action sprinkler system in accordance with **APA-ZZ-00701**, Control of Fire Protection Impairments.)
- 4.3 PHYSICAL INSPECTION OF WORK AREA
- 4.3.1 The Responsible Supervisor /Designee **SHALL** inspect the work area to ensure it is a fire safe area. He **MUST** document the results of the inspection on the Hot Work Permit. (**COMN 515**)
- 4.3.2 The inspection performed should verify the following:
- 4.3.2.1 All equipment to be used is in satisfactory operating condition.

- 4.3.2.2 Oxyacetylene equipment is checked for leaks before being moved to the work area.
- 4.3.2.3 The floor should be cleared of appreciable combustible debris for a radius of 35 feet before initiation of hot work.
- 4.3.2.4 All combustibles should be relocated at least 35 feet from the work site, where practicable.
- 4.3.2.5 Where relocation is impracticable, appreciable combustibles should be protected with flame-proofed covers or shielded with flame-proofed guards or curtains.
 - 4.3.2.5.1 Edges of covers at the floor should be tight to prevent sparks from going under them.
 - 4.3.2.5.2 This precaution also applies at overlaps where several covers are used to protect a large area.
- 4.3.2.6 Where practicable, wall or floor openings or cracks within 35 feet of the site should be tightly covered to prevent the passage of sparks to adjacent areas.
- 4.3.2.7 Where it is not practicable to satisfy Steps 4.3.2.4 and 4.3.2.6, a fire watch **MUST** be in clear view of where sparks are going or an enclosure should be provided around the work site and a fire watch **MUST** be posted to ensure that sparks or hot slag do not escape from the enclosure.
- 4.3.2.8 Ducts that might carry sparks to distant combustibles should be suitably protected or shut down.
- 4.3.2.9 Where cutting or welding is done near walls, partitions, ceiling or roof of combustible constructions, fire-resistant shields or guards should be provided to prevent ignition.
 - 4.3.2.9.1 If welding is to be done on a metal wall, partition, ceiling or roof, precautions should be taken to prevent ignition of combustibles on the other side, due to conduction or radiation, preferably by relocating combustibles.
 - 4.3.2.9.2 Where combustibles are not relocated, a fire watch on the opposite side from the work should be provided.

- 4.3.2.9.3 Welding should not be attempted on a metal partition, wall, ceiling or roof having a combustible covering nor on walls or partitions or combustible sandwich-type panel construction.
- 4.3.2.9.4 Cutting or welding on pipes or other metal in contact with combustible walls, partitions, ceilings or roofs should not be undertaken if the work is close enough to cause ignition by conduction.
- 4.3.2.10 Portable fire extinguishers, appropriate for the type of possible fire, should be available at the work area.
- 4.3.2.10.1 Extinguisher(s) may be obtained from the "Recharged Extinguishers" bins described in Step 4.7.2.1.
- 4.3.2.10.2 Plant installed extinguishers should not be used for fire watch activities.
- 4.3.2.11 Nearby workers should be suitably protected against heat, sparks, slag, etc.
- 4.3.2.12 For elevated work, covers should be suspended to collect sparks.
- 4.3.2.13 For work on enclosed equipment, equipment should be cleaned of combustibles.
- 4.3.2.14 For work on enclosed equipment, containers should be purged of flammable vapors.

4.4 CONDITIONS WHEN HOT WORK IS NOT PERMITTED

4.4.1 Hot work should not be permitted in the following situations:

4.4.1.1 In the presence of explosive atmospheres (mixtures of flammable gases, vapors, liquids, or dust with air).

4.4.1.2 In explosive atmospheres that may develop inside uncleaned or improperly prepared tanks or equipment that have previously contained such materials,

4.4.1.3 In areas with an accumulation of combustible dusts.

4.4.1.4 On flammable gas or liquid transmission/distribution utility pipelines, or other "hot tapping" operations unless performed by a crew qualified to make hot taps and written permission is obtained from the Fire Protection Engineer(s).

4.4.1.5 In rooms while the fire suppression system is impaired, except as specified in Steps 4.2.1 and 4.2.2.

4.4.1.6 In areas near the storage of large quantities of exposed, readily ignitable materials.

4.5 DOCUMENTING THE PHYSICAL INSPECTION

4.5.1 The Responsible Supervisor/Designee may request limited relief from 4.4.1.3 and 4.4.1.4 if it is not practical to perform hot work activity without such relief and adequate precautions are taken.

4.5.2 The Responsible Supervisor/Designee or Hot Work Fire Watch MUST list any additional precautions on the Hot Work Permit.

4.5.3 The Responsible Supervisor/Designee or the Hot Work Fire Watch SHALL sign and date the Hot Work Permit verifying that the hot work area has been inspected prior to initiation of hot work.
(COMN 515)

4.6 AUTHORIZING HOT WORK

- 4.6.1 Prior to beginning hot work, the Responsible Supervisor/Designee **MUST** sign the Hot Work Permit.
- 4.6.2 Only the Shift Supervisor or Operating Supervisor can approve work to begin in the following situations:
- a) If the work is not initiated by a Work Request
 - b) If large quantities of readily ignitable materials cannot be removed from the hot work area
 - c) If the fire suppression system for the room is out of service
- 4.6.3 If an FPIP is included in the work package, the Responsible Supervisor/Designee **MUST** notify the Control Room prior to the initiation of hot work activities and immediately following the completion of such activities.
- 4.6.4 Once the Responsible Supervisor/Designee signs the Hot Work Permit and obtains necessary approval, hot work may be initiated and performed for up to 24 hours. See Step 4.9 to extend a Hot Work Permit beyond the initial 24 hours. **(COMN 515)**

4.7 PROVIDING FOR HOT WORK FIRE WATCHES

<p><u>NOTE:</u> Hot Work Fire Watches are required for all Hot Work which is not performed in a Permit Exempt Area.</p>
--

- 4.7.1 If a Hot Work Fire Watch is required, he **SHALL** be posted at the work site before initiation of hot work. **(COMN 549)**
- 4.7.2 Hot Work Fire Watches **SHALL** have a portable fire extinguisher readily available, in addition to installed extinguishers. **(COMN 515)**
- 4.7.2.1 Fire extinguishers for use by Hot Work Fire Watches are stored at the following locations in the "Recharged Extinguishers" bins:
- a) 1974' elevation, Auxiliary Building, West Corridor
 - b) 2000' elevation, Turbine Building, Northeast Corner.
 - c) CWCCS Building

- 4.7.2.2 If the fire extinguisher was not discharged during the watch, it MUST be returned to the storage location where it was obtained and replaced in the "Recharged Extinguishers" bin.
- 4.7.2.3 If the fire extinguisher was discharged, it MUST be returned to the storage location where it was obtained and placed in the "Out of Service Extinguishers" bin.
- 4.7.2.3.1 The Responsible Supervisor MUST notify the Fire Protection Engineer(s) the fire extinguisher was discharged and explain the reason for it's use.
- 4.7.3 Hot Work Fire Watches SHALL be cognizant of the communication equipment in the area where they are assigned and be capable of communicating with the Control Room when in proximity of flammable material, cable trays, or vital equipment. (COMN 40773)
- 4.7.4 While welding on vehicles, a hot work fire watch should be provided.
- 4.8 CONDUCTING HOT WORK
- 4.8.1 Precautions established for the hot work activity SHALL be maintained throughout the duration of the work. (COMN 515)
- 4.8.2 Hot work may continue to be performed only so long as conditions are unchanged from those under which approval was granted on the Hot Work Permit.
- 4.9 EXTENDING HOT WORK
- 4.9.1 A Hot Work Permit may be extended beyond the initial 24 hour period. (COMN 515)
- 4.9.2 Extensions are not to exceed 24 hours.
- 4.9.3 Only 2 extensions are allowed per Permit.
- 4.9.4 Prior to requesting an extension for the Hot Work Permit, the Responsible Supervisor/Designee MUST reinspect the work area to ensure that the conditions are unchanged and the precautions are still being satisfied.
- 4.9.5 The reinspection MUST be documented by signing the extension of the Hot Work Permit.

4.10 CLOSING OUT HOT WORK

4.10.1 If a Hot Work Fire Watch was provided, the Fire Watch SHALL be maintained for 30 minutes to perform a post-work inspection after completion or interruption (lunch breaks, etc.) of hot work.

(FSAR SA APPENDIX 9.5A)

4.10.1.1 The Hot Work Fire Watch SHOULD inspect the work area and adjacent areas where sparks and/or slag may have entered to detect and extinguish possible smoldering fires.

4.10.2 If fire protection systems have been impaired, then at the completion of hot work, the STA/Control Room MUST be notified by the Responsible Supervisor/Designee that hot work has been concluded.

4.10.3 The Hot Work Permit is to be retained with the work package during work activities.

5 LEAK TESTING (COMN 550)

Open flames or combustion generated smoke SHALL NOT be used for leak testing in all plant areas.

6 SMOKING

The use of tobacco products MUST be in accordance with the Callaway Smoking Policy.

7 QUALIFICATIONS FOR HOT WORK FIRE WATCHES (COMN 549)

7.1 TRAINING

7.1.1 Callaway personnel assigned duties as a Hot Work Fire Watch and the Responsible Supervisor SHALL have received the training required in **FPP-ZZ-00009**, Fire Protection Training Program.

7.1.2 Vendor/Contractor personnel assigned duties as a Hot Work Fire Watch and their Supervisor/Foreman SHALL have received the training specified in **FPP-ZZ-00009**, Fire Protection Training Program.

7.2 PHYSICAL AND EXPERIENCE

No additional physical or experience requirements are imposed on individuals assigned Hot Work Fire Watch duties above those required of their normal position.

8 RECORDS

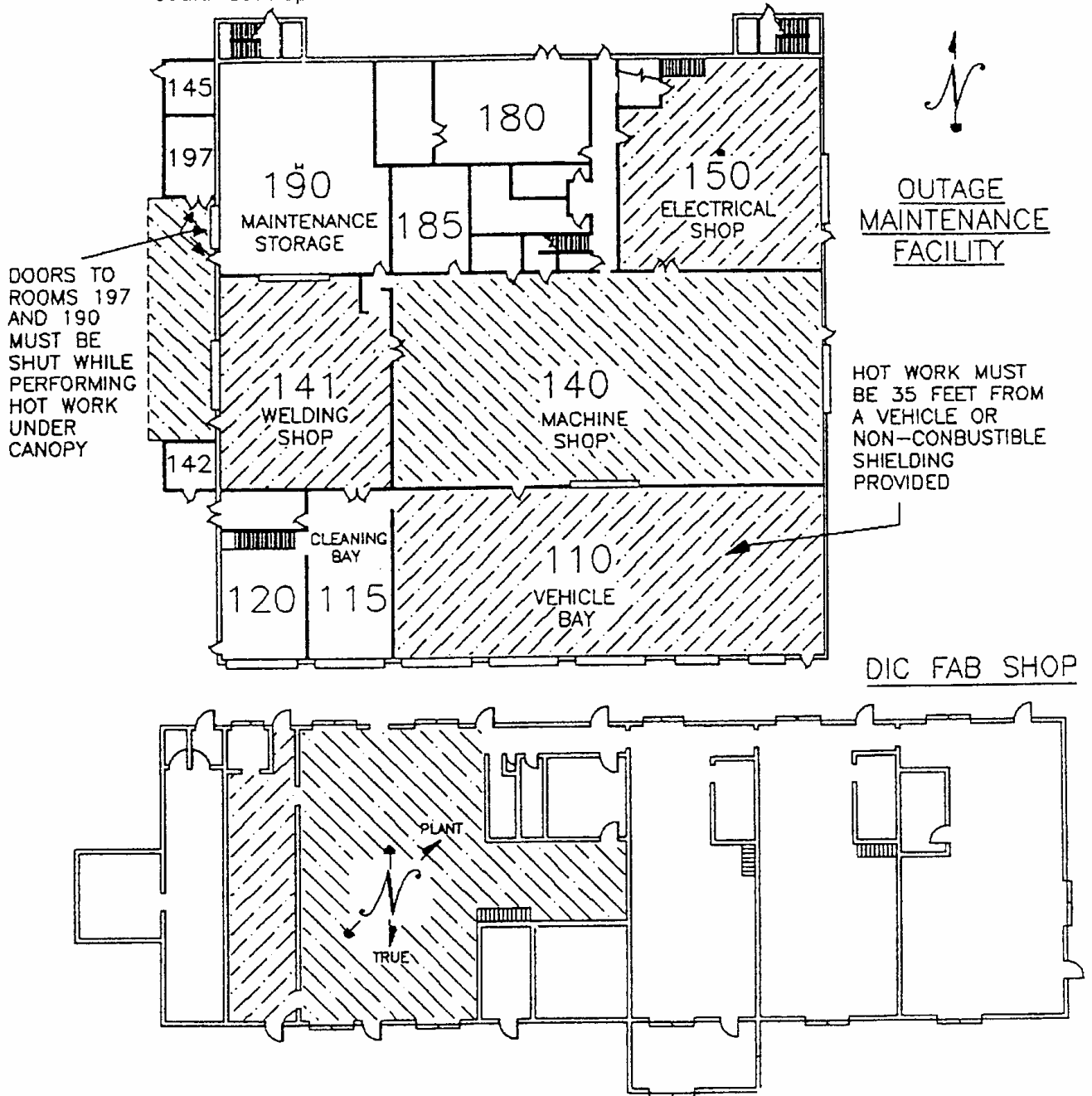
8.1 None. Hot Work Permits can be discarded when work is completed.

9 REFERENCES

- 9.1 NFPA 51B, Cutting and Welding Processes (1971, 597)
- 9.2 Callaway Addendum to the SNUPPS FSAR, Section 9.5-1.
- 9.3 **APA-ZZ-00802**, Confined Space Entry Permit Program.
- 9.4 SNUPPS FSAR Section 9.5-1.
- 9.5 **FPP-ZZ-00009**, Fire Protection Training Program
- 9.6 Callaway Smoking Policy.
- 9.7 **APA-ZZ-00741**, Control of Combustible Materials.
- 9.8 **APA-ZZ-00701**, Control of Fire Protection Impairments
- 9.9 **APA-ZZ-00703**, Fire Protection Operability Criteria and Surveillance Requirements.
- 9.10 NFPA 51, Oxygen-Fuel Gas Systems for Welding, Cutting and Allied Processes (1974).
- 9.11 **APA-ZZ-00320**, Initiating and Processing Work Requests.
- 9.12 NRC Vassallo's Letter (issued 8/29/77)

HOT WORK PERMIT EXEMPT AREAS

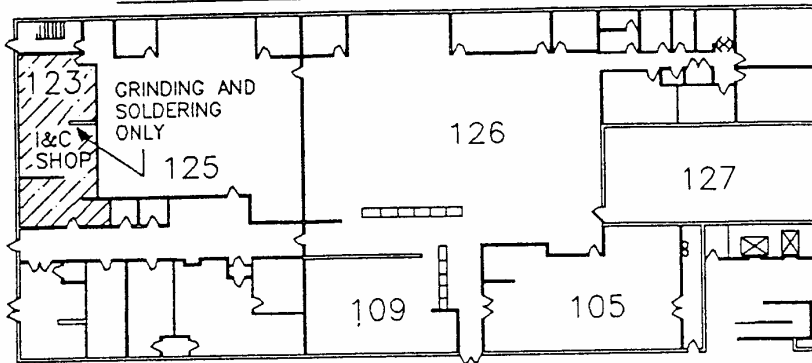
NOTICE: Individuals conducting hot work in a Hot Work Permit Exempt Area are responsible for insuring that the hot work is conducted safely and that no fire of greater magnitude than a Minor Fire could develop.



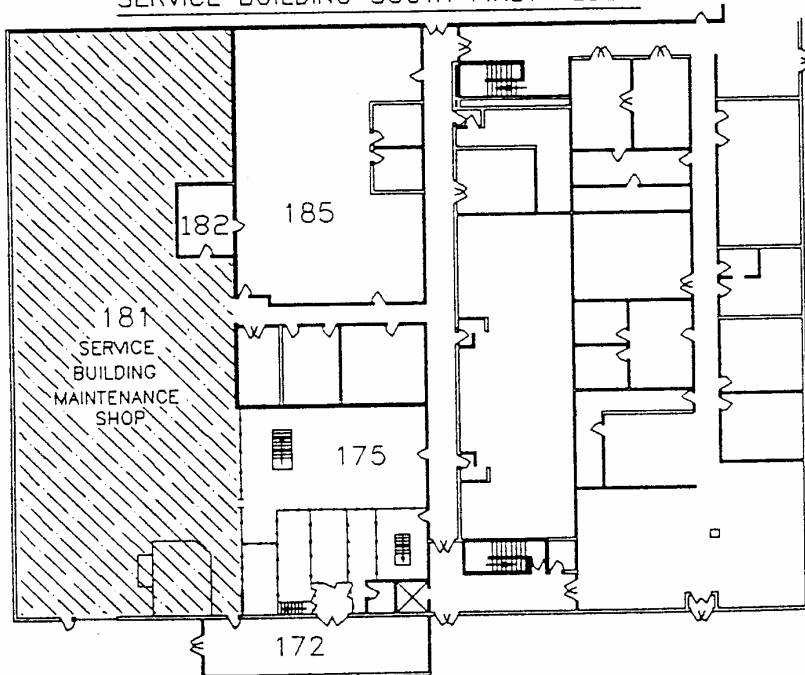
HOT WORK PERMIT EXEMPT AREAS

NOTICE: Individuals conducting hot work in a Hot Work Permit Exempt Area are responsible for insuring that the hot work is conducted safely and that no fire of greater magnitude than a Minor Fire could develop.

SERVICE BUILDING NORTH FIRST FLOOR



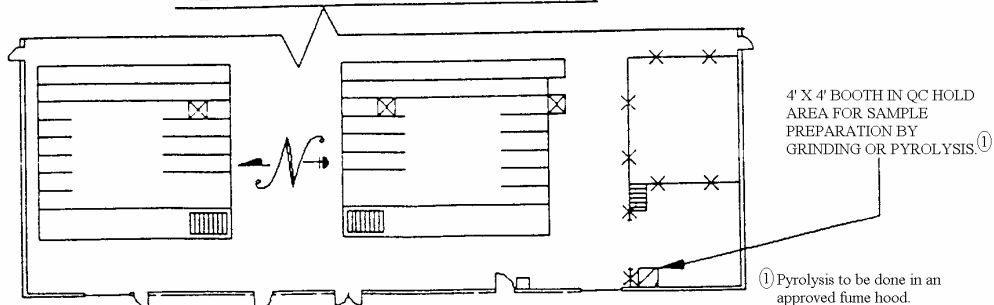
SERVICE BUILDING SOUTH FIRST FLOOR

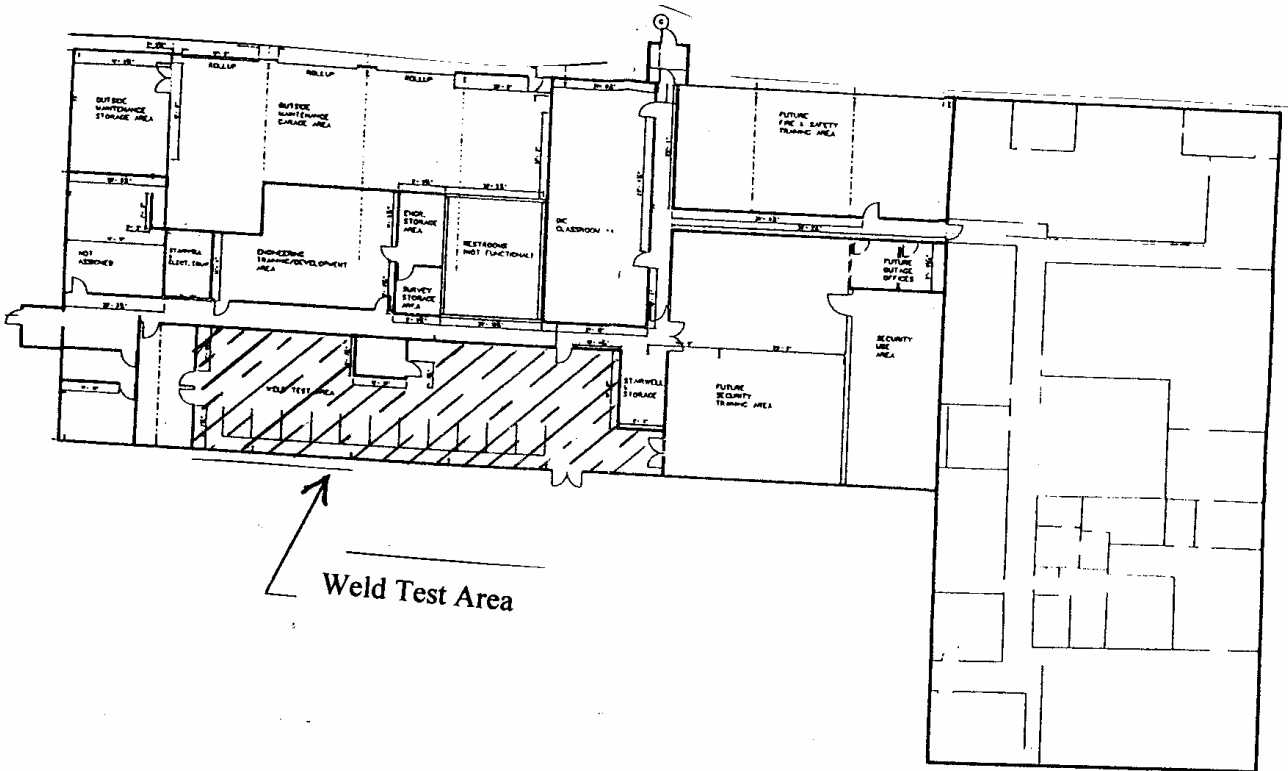


YARD AREAS

WORK SITE MUST BE AT LEAST 35' FROM NEAREST COMBUSTIBLE MATERIAL, INCLUDING GRASSY AREAS AND OPENINGS IN TEMPORARY AS WELL AS PERMANENT STRUCTURES OR NON-COMBUSTIBLE SHIELDING PROVIDED, SUCH AS BUILDING SIDING.

WEST END OF STOREROOM ONE





CALLAWAY MULTIPURPOSE BUILDING

UNDERWATER HOT WORK PROCESSES

(i.e. welding in Spent Fuel Pool)

HOT WORK PERMIT

- Hot Work Fire Watches are required for all Hot Work which is not performed in a Permit Exempt Area.
- Hot work will be performed as follows:

Location: Building _____ Room _____ Elevation _____

Work Authorizing Document # _____

____ Welding ____ Grinding ____ Open flame work

- Perform the following actions:

YES N/A

- ☐ ☐ If an FPIP is in work package, notify STA/Control Room prior to hot work. (Phone 68459)
(Notify if area is protected by halon or pre-action sprinklers. See back of permit).
- ☐ Remove loose, appreciable combustible debris within a 35 foot radius or use fire-resistant shields to block or cover appreciable combustible materials which cannot be removed from area.
- ☐ ☐ Cover wall or floor openings, as applicable, to prevent passage of sparks to adjacent areas.
- ☐ Obtain a portable fire extinguisher.
- | | |
|---|-------------------|
| <u>Locations</u> | <u>Outside PA</u> |
| 1974' E1 Aux. Bldg. West Corridor | CWCCS |
| 2000' E1 Turbine Bldg. Northeast Corridor | |
- ☐ Hot Work Fire Watch assigned. Watch MUST also inspect area for 30 minutes following work completion.

The above area has been surveyed and all check points listed above have been verified or performed as appropriate. Follow-up inspections are required prior to signing extension.

- Work can commence

Initial Work Permit

☐ Signed: _____ Date _____ Time _____
(Responsible Supervisor/Designee)

NOTE: Initial Hot Work permit valid for 24 hours.

First Extension

☐ Signed: _____ Date _____ Time _____
(Responsible Supervisor/Designee)

NOTE: First extension valid for 24 hours

Second Extension

☐ Signed: _____ Date _____ Time _____
(Responsible Supervisor/Designee)

NOTE: Second extension valid for 24 hours

Permit Closure

YES N/A

- ☐ ☐ If FPIP is in work package, notify Control Room work is complete. (Phone 68459)
- ☐ Signed _____ Date _____ Time _____
(Responsible Supervisor/Designee)

If the work area is one of the following listed below, contact the Control Room to determine if fire suppression system should/must be disabled prior to performing Hot Work.

AUXILIARY BUILDING

- 1974', 2000', or 2026' El. Corridors/Hallways
(Rooms 1101, 1102, 1122, 1130, 1301, 1312, 1314, 1315, 1316, 1317, 1320, 1321, 1402, 1406, or 1408) (Pre-action Sprinkler Systems)
- North and South Electrical Penetration Rooms (1409 and 1410) (Halon System must be disabled)
- Load Center & MG Sets Room (1403) (Halon System must be disabled)

CONTROL BUILDING

- Upper and Lower Cable Spreading Rooms (3501 and 3801) (Pre-action Sprinkler Systems.)
- ESF Switchgear Rooms 1 and 2 (3301 and 3302) (Halon System must be disabled)
- Control Room Cable Trench and Chase (Halon System must be disabled)

COMMUNICATION CORRIDOR

- BOP Computer Room (3613) (Pre-action System must be disabled)

SERVICE BUILDING

- Service Bldg. IBM Computer Room (Halon System must be disabled)
- Service Bldg. Telephone or Microwave Rooms (Halon System must be disabled)

TRAINING CENTER

- Training Center Computer Room (Halon System must be disabled)
- Training Center Simulator Room (Halon System must be disabled)

STORES 1

- Stores #1 Radiograph Storage Vault (Halon System must be disabled)